


APPROVALS




 **ENGINEERING CODE**
303CO1201AC


 **APPROVED REFRIGERANT**
R-404A


 **POWER SUPPLY**
380 V 50 Hz

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
LBP

 **COOLING CAPACITY**
1890 W

 **EFFICIENCY**
1.1 W/W

 **MOTOR TYPE**
3 Phase

DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	8.1 m ³ /h (46.6 cm ³ /rev)
Compressor Cooling	Static
Horse Power	3 hp
Power Supply	380-420 V 50 Hz / 460 V 60 Hz

Electrical Data

Motor type	3 Phase
Pole	2
Voltage working range at 50 Hz	342-462 V
Voltage working range at 60 Hz	414-506 V
Maximum Motor Temperature	130 °C
Run Winding Resistance	3.3 Ω at 25° C
Motor insulation class	B
Rated speed	2900
High Side	3.2 MPa
Low Side	2 MPa
Maximum discharge temperature	125
Pressure release valve opening range	2.76-3.10 MPa

Mechanical Data

Maximum Recommended Refrigerant Charge	3.5 Kg
Oil Type	POE 32
Oil Initial Volume	1.4 L
Oil Recharge Volume	1.25 L
Oil Circulation	<1 %
Weight	30.6 Kg
Free Internal Volume Low	3.8 L
Free Internal Volume High	1 L

Electrical Components

	Description
Motor Protection	Internal Protector

External Characteristics

Base Plate Holes	191x191		
Base Plate Dimensions	239x239		
Height	424 mm		
Diameter	168 mm		
Hanger Tab	1		
Oil Side Glass	1		
Connector	Internal Diameter	Material	Shape
Suction	1 1/4"-12 UNF 2A	Copper plated steel tube	Rotolock
Discharge	3/4"-16 UNF 2A	Copper plated steel tube	Rotolock

PERFORMANCE

Rated Points

Cooling Capacity	Power Input	COP	Rated Load Amps RLA	Locked Rotor Amps LRA	Maximum Operating Current MOC	Sound Power Level
1890 W	1722 W	1.1 W/W	4.3 A	45 A	5.8 A	71 dBA

Test Condition: EN12900: Te -35°C; Tc 40°C; Rg 20°C. No subcooling; Ta 35°C. Data in accordance to EN12900 guideline polynomial curve.

Performance Curve Data - Frequency: 50Hz

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1617	1497	1.08
-35	2027	1583	1.28
-30	2529	1675	1.51
-25	3128	1771	1.77
-20	3830	1872	2.05
-15	4639	1976	2.35
-10	5562	2084	2.67
-5	6603	2195	3.01
0	7769	2308	3.37

Test Condition: , Static, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1394	1794	0.78
-35	1748	1887	0.93
-30	2180	1986	1.1
-25	2695	2090	1.29
-20	3299	2199	1.5
-15	3996	2314	1.73
-10	4793	2432	1.97
-5	5695	2554	2.23
0	6706	2678	2.5

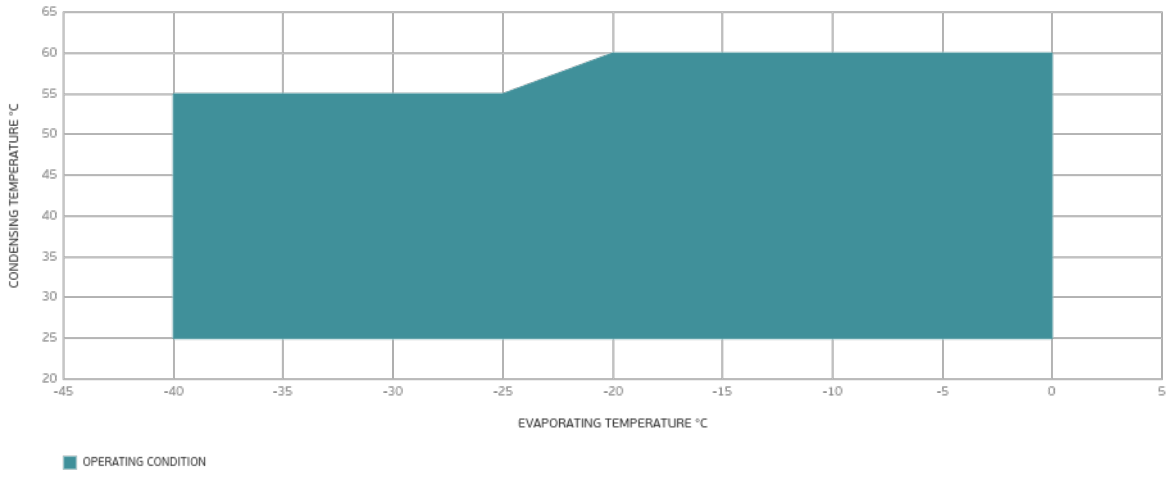
Test Condition: , Static, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

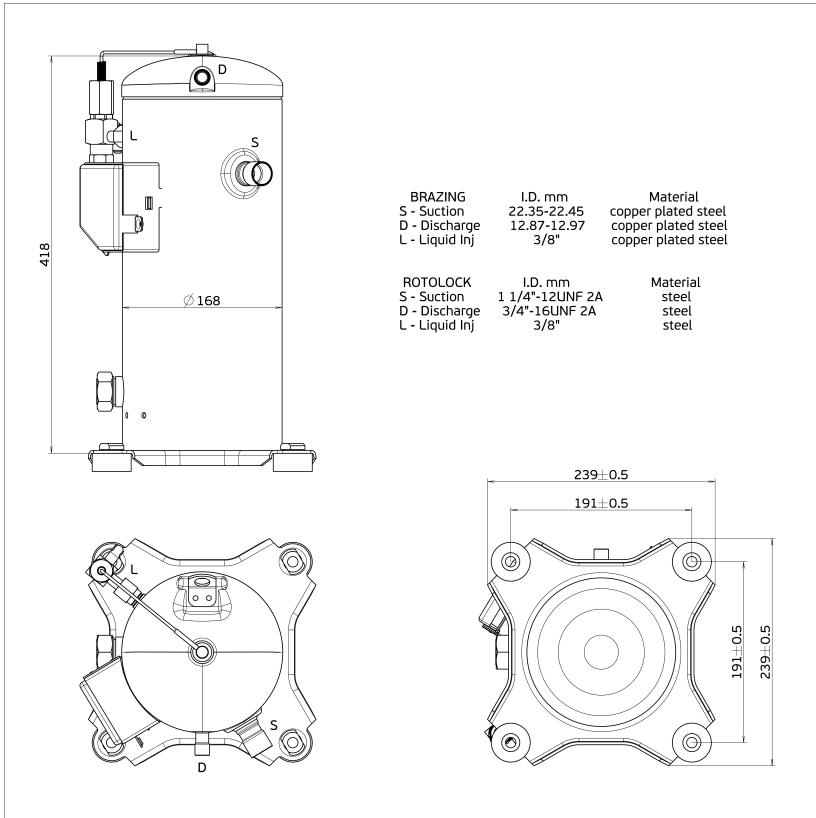
Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1199	2260	0.53
-35	1479	2352	0.63
-30	1824	2452	0.74
-25	2238	2558	0.87
-20	2726	2669	1.02
-15	3294	2787	1.18
-10	3948	2909	1.36
-5	4693	3035	1.55
0	5534	3166	1.75

Test Condition: , Static, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



External Dimensions



Wiring Diagram

